

# A New Port for the Region- POIC Lahad Datu

12<sup>th</sup> Asean Ports and Shipping  
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# Table of Contents

1. Introduction
2. Sabah's Economy
3. Major Clusters in POIC Lahad Datu
4. Terminals in POIC Lahad Datu



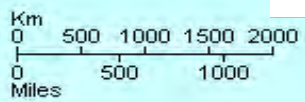
**POIC**



**BIMP-EAGA**

Population: 60 million

Proximity to source of raw materials from other regions



# Located at the centre of oil palm growing belt in Sabah



**Availability of raw materials (2013) :**

Malaysia is second largest producer of CPO  
1.4 million hectares (contribute to 27% of Malaysia's total plantation)

5.78 million tonnes of crude palm oil (CPO) production (30% of Malaysia's total production)

124 mills in Sabah (29% of 426 mills in Malaysia)

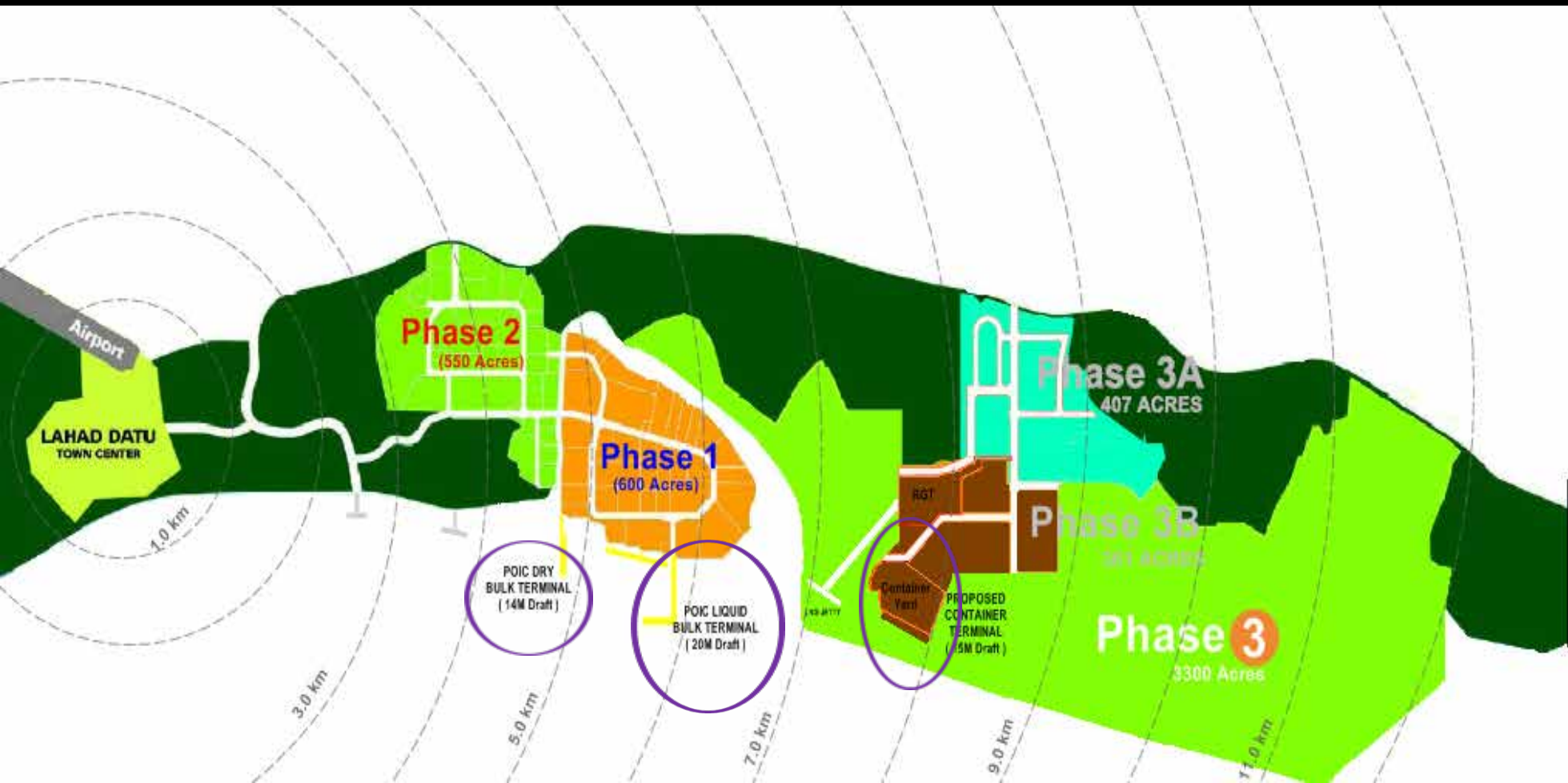
12 refineries in Sabah (25% of 52 refineries in Malaysia)

4.5 million tonnes of processed palm oil

0.566 million tonnes of palm kernel oil (PKO)

0.67 million tonnes of palm kernel cake

# Terminal Locations in POIC Lahad Datu



- § 4,400 acres of industrial land for development
- § 1,600 acres already developed
- § Deep & sheltered harbour ~ depth up to 20-metre
- § Strategic location – plentiful of supply source of PO & proximity to SE Asia

# Sabah's Economy

# Forestry & Agriculture Dominate Land Use in Sabah

Land use	(000' ha)	(%)
National Forests & State Land	4,091	55.6
Plantation Forest	214	2.9
Oil Palm Plantations	1,415	19.2
Rubber Holdings	87	1.2
Rice Fields	43	0.6
Coconut Farms	18	0.2
Cocoa Holdings	7	0.1
Other Crops	27	0.4
Other Land Uses	1,460	19.8
<b>Total</b>	<b>7,362</b>	<b>100.0</b>

A red bracket on the right side of the table groups the following categories: National Forests & State Land (55.6%), Plantation Forest (2.9%), Oil Palm Plantations (19.2%), Rubber Holdings (1.2%), Rice Fields (0.6%), Coconut Farms (0.2%), Cocoa Holdings (0.1%), and Other Crops (0.4%). The total percentage for these categories is 80.2%.

Source : Department of Statistics Malaysia (2012)

# Oil Palm Industry in Sabah, Malaysia 2013

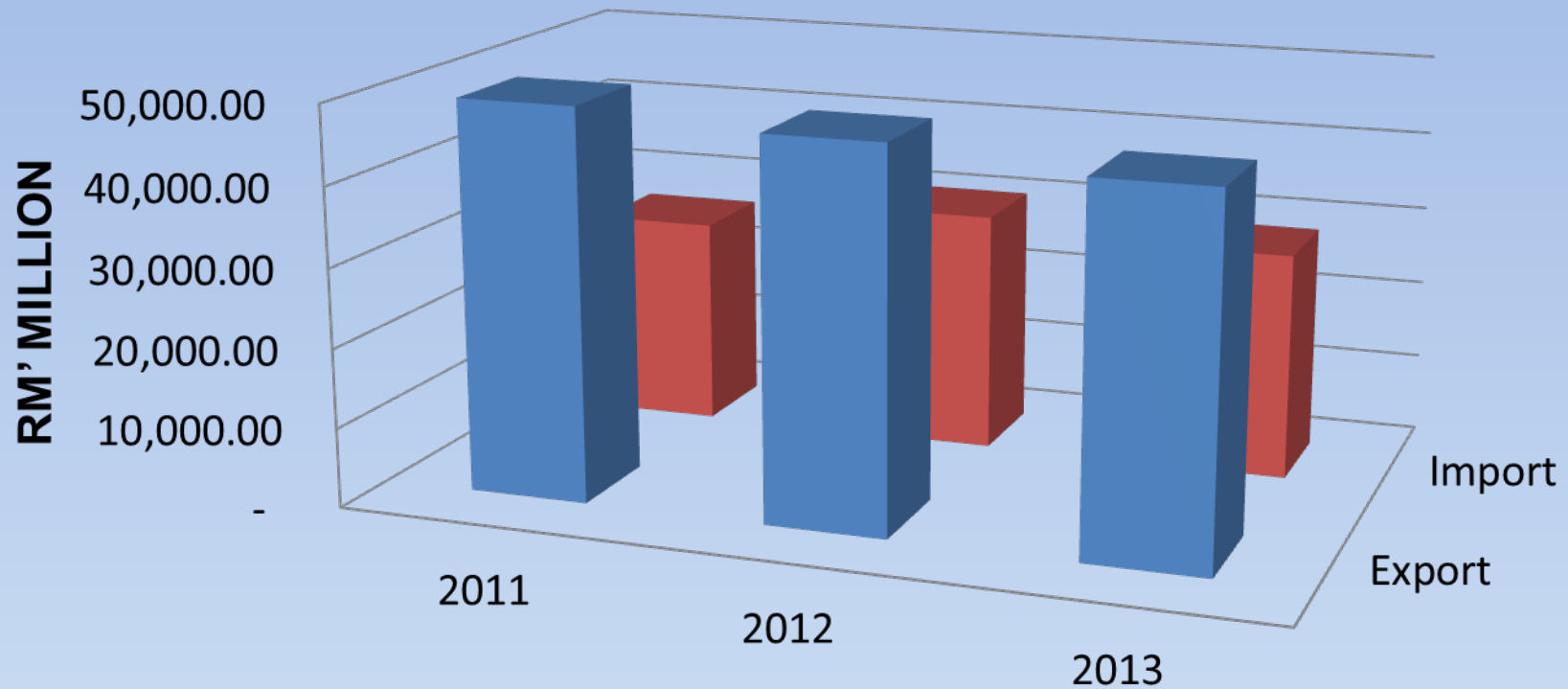
	Sabah	Malaysia
Oil Palm Planted Area (Million Hectares)	1.48 (28.2 %)*	5.23
Palm Oil Mill (Nos.)	124 (28.9%)	429
Refineries (Nos.)	14 (27%)	52
Palm Kernel Crusher (Nos.)	14 (30.4 %)	46
Crude Palm Oil Production (Million Tonnes)	5.78 (30%)	19.21
Crude Palm Kernel Oil Production (Million Tonnes)	0.61 (27 %)	2.27

\* Percent of National Total

Source: Malaysian Palm Oil Board (MPOB) website, 2013 Statistics



# Exports and Imports



	2011	2012	2013
Export	49,395.20	47,684.80	45,393.10
Import	26,451.20	30,555.30	28,726.00

Source : Department of Statistics Malaysia (2014)

# **Major Clusters in POIC Lahad Datu**

# Fertilizer Cluster

No	Companies	Capacity (MT)
<b>Completed</b>		
1	<b>CCM Agriculture (Sabah) Sdn Bhd</b>	130,000
2	<b>Behn Meyer &amp; Co (M) Sdn Bhd</b>	150,000
3	<b>FPM Sdn Bhd (Felda Group)</b>	70,000
4	<b>Taiko Fertiliser Sdn Bhd (KL Kepong Group)</b>	200,000
5	<b>Sabah Softwoods Hybrid Fertiliser Sdn Bhd (All Cosmos Group)</b>	200,000
6	<b>Agri Borneo Fertilizer Sdn Bhd (AgriFert Malaysia)</b>	150,000
	<b>Total</b>	<b>900,000</b>
<b>Planning For Construction</b>		
1	<b>Union Harvest Sdn Bhd (Sumitomo Group)</b>	200,000
2	<b>Excelwin Biotech Sdn Bhd</b>	50,000
3	<b>Sunnite Timur Sdn Bhd</b>	25,000
	<b>Total</b>	<b>275,000</b>
	<b>Grand Total</b>	<b>1,175,000</b>



**FPM Sdn Bhd (Felda Agricultural Services)**



**CCM Agriculture (Sabah) Sdn Bhd**



**Sabah Softwood Hybrid Fertilizer Sdn Bhd**



**Behn Meyer Agricare (M) Sdn Bhd**



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**Taiko Fertiliser Sdn Bhd**



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**Agri Borneo Fertilizer Sdn Bhd**

# Palm Oil Cluster

No	Companies	Capacity (MT)
<b>Completed</b>		
1	<b>Global Biodiesel Sdn Bhd (Genting Group)</b>	200,000
2	<b>Mewah Datu Sdn Bhd (Mewah Group, Singapore)</b>	900,000
3	<b>SPC Biodiesel Sdn Bhd (Genting Group)</b>	100,000
4	<b>Zurex Corporation Sdn Bhd</b>	200,000
5	<b>QL Bioenergy Sdn Bhd (QL Group)</b>	175,750
	<b>Total</b>	<b>1,575,750</b>
<b>Under Construction</b>		
1	<b>Gamalux Oils Sdn Bhd (Pakistan)</b>	90,000
2	<b>EcoOils (Sabah) Sdn Bhd (Kewalram Group, Singapore)</b>	50,000
	<b>Total</b>	<b>140,000</b>



SPC Biodiesel Sdn Bhd



Global Bio-Diesel Sdn Bhd

No	Companies	Capacity (MT)
<b>Planning For Construction</b>		
1	<b>Alfa Raya Development Sdn Bhd (Genting Group)</b>	na
2	<b>Asia Oil Palm Sdn Bhd (JC Chang Group)</b>	99,000
3	<b>Lahad Datu Edible Oils Sdn Bhd (Wilmar Group)</b>	156,000
4	<b>Sab Bio-Fuel Sdn Bhd (Southern Acids Group)</b>	550,000
5	<b>Reliance Synergy Sdn Bhd</b>	150,000
6	<b>Sawit Raya Oils (Sabah) Sdn Bhd</b>	60,000
7	<b>Natural Specialty Fats Sdn Bhd</b>	83,000
	<b>Total</b>	<b>1,098,000</b>
	<b>Grand Total</b>	<b>2,813,750</b>



**Mewah Datu Sdn Bhd**



**Zurex Corporation Sdn Bhd**



# Biomass Industry

No	Companies	Capacity (MT)
<b>Completed</b>		
1	The Green Biomass Sdn Bhd (Oil Palm Wastage Pellet)	60,000
2	JS Biomass Resources Sdn Bhd (Storage, Processing & Packaging of Oil Palm Biomass)	200,000
	<b>Grand Total</b>	<b>260,000</b>



The Green Biomass Sdn Bhd



JS Biomass Resources Sdn Bhd

# Oil Palm Biomass

## Resources & Oil Production In Sabah

	<u>Dry Weight (Mil. Tonnes/Year)</u>
 Oil Palm Fronds (OPF)	<b>16.4</b>
 Oil Palm Trunks (OPT)	<b>4.5</b>
 Empty Fruit Bunches (EFP)	<b>2.3</b>
 Mesocarp Fibres	<b>2.5</b>
 Palm Kernel Shells (PKS)	<b>1.4</b>
 Palm Oil Mill Effluent (POME)	<b>1.0</b>
<b>Total :</b>	<b>28.1</b>

**Total Annual dry oil palm biomass from OPF, OPT, EFB & Mesocarp Fiber**

25.7 Mil MT/Year

**Potential Output Per Year**

2.7 Mil MT/year to produce pellet

**OR**

5.14 Mil MT to produce bio ethanol /

65,145 Billion Litre/Year

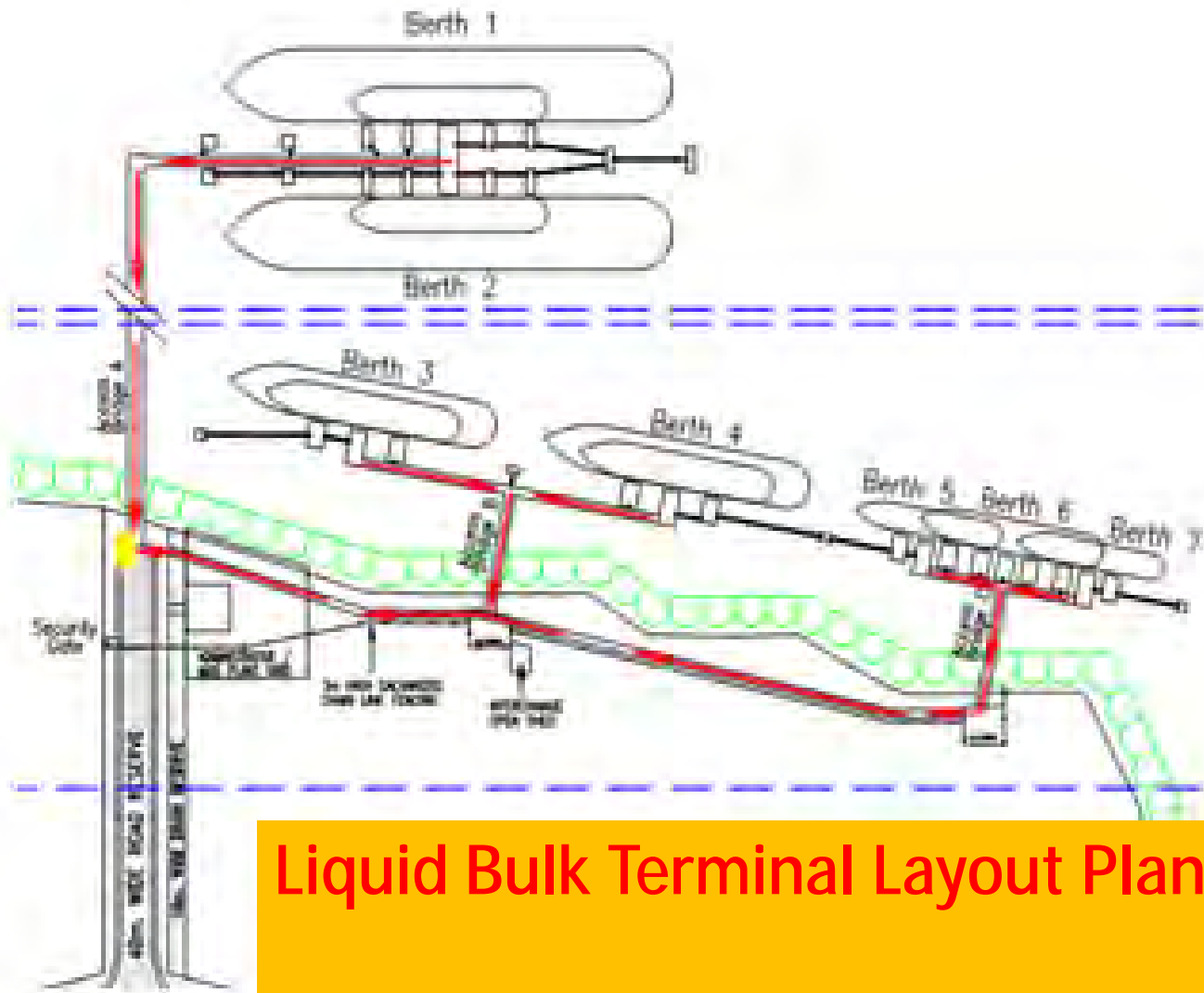
169,212 TEUs/Year

	<u>Metric Tonnes/Year</u>
 Crude Palm Oil	<b>5,542,649</b>
 Palm Kernel Oil	<b>562,273</b>
 Palm Fatty Acid Distillate (PFAD)	<b>198,313</b>
 Palm Kernel Cake (PKC)	<b>629,911</b>





# Liquid Bulk Terminal



Liquid Bulk Terminal Layout Plan

# Lahad Datu POIC Liquid Bulk Terminal



**Berths 4, 5, 6 & 7**

**Berths 1 & 2**

# Lahad Datu POIC Liquid Bulk Terminal

## Berthing Facilities

<b>Berth No</b>	<b>Draft (M)</b>	<b>Maximum Vessel Size (DWT)</b>
<b>1</b>	20	100,000
<b>2</b>	20	100,000
<b>3</b>	12	20,000
<b>4</b>	12	20,000
<b>5</b>	12	3,000
<b>6</b>	12	6,000
<b>7</b>	12	3,000

# Lahad Datu POIC Liquid Bulk Terminal

## Storage

- POIC allows direct pumping by shipper via the interchange
- POIC plans to build its own storage tanks

## Cargo Handling Equipment/Services

- Five 10-inch-pipelines
- Four reducers (6" x 8")
- Six (8" x 15') Flexible Hoses
- Two (6" x 15') Flexible Hoses
- Supply of compressed air for pigging
- Supply of hot water for pipe cleaning



**Pipe rack to Investors' premises**

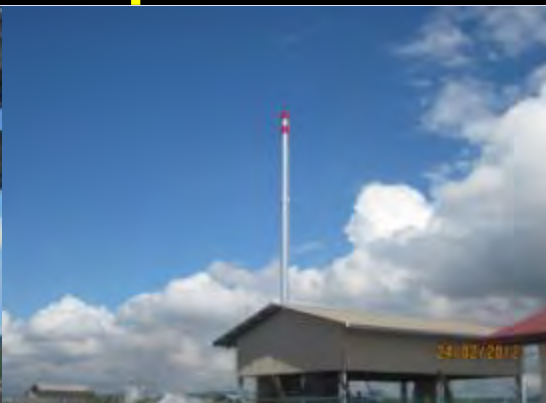
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**Cargo lines on pipe rack leading to the interchange**

# Lahad Datu POIC Liquid Bulk Terminal ~ Facilities



Cargo lines on pipe rack



Boiler/Compressor Shed



Interchange



Access Bridge



Pipe connectors



Pipe rack



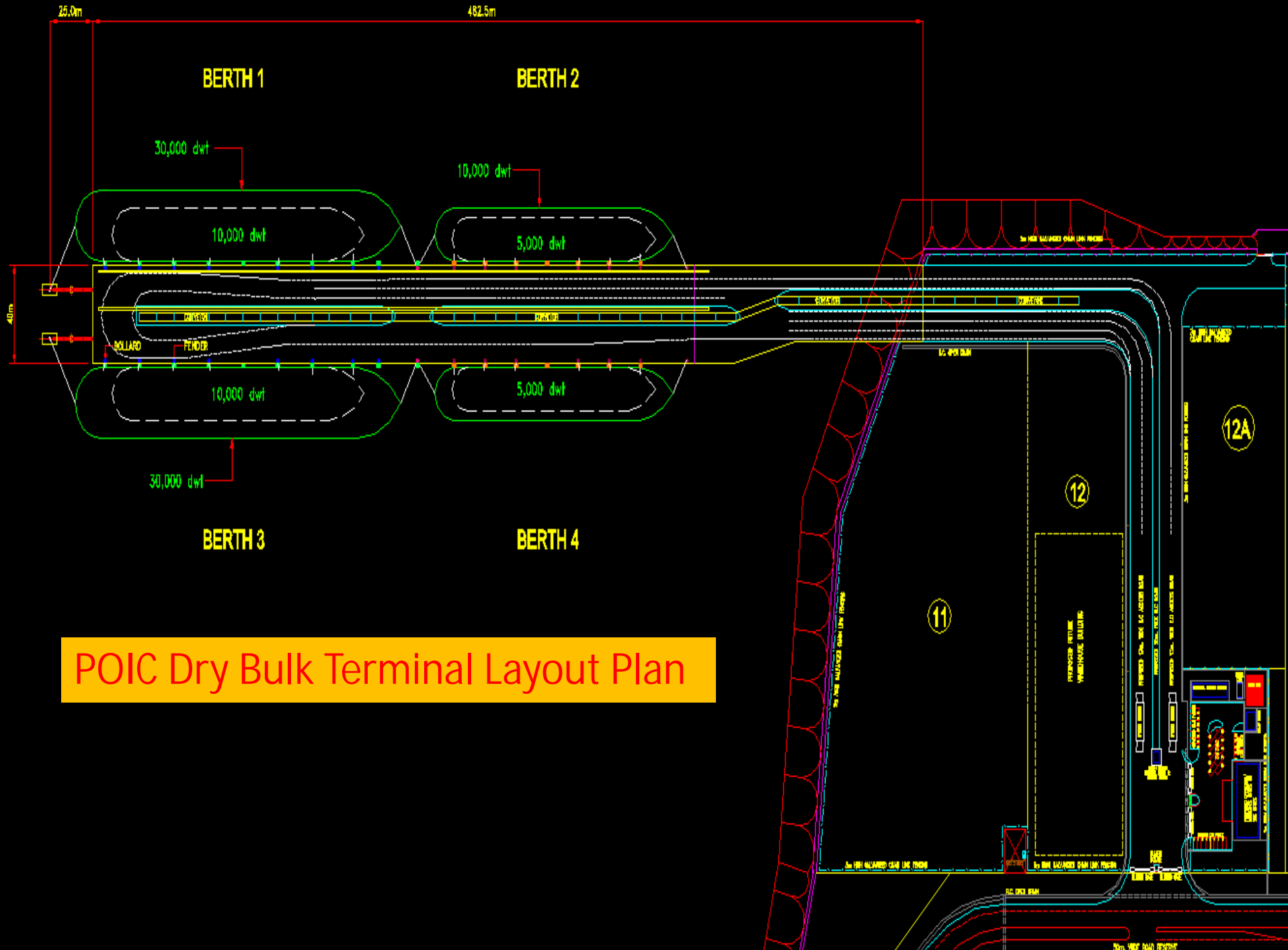
The manifolds on the loading platform



Pipelines on the loading platform

# Dry Bulk Terminal





**POIC Dry Bulk Terminal Layout Plan**

# Lahad Datu POIC Dry Bulk Terminal



## BERTH 1

Depth (m) – 12.8  
Max. DWT – 30,000  
Length (m) - 188

## BERTH 2

Depth (m) – 10.8  
Max. DWT – 10,000  
Length (m) - 138

## BERTH 3

Depth (m) – 12.8  
Max. DWT – 30,000  
Length (m) - 188

## BERTH 4

Depth (m) – 10.8  
Max. DWT – 10,000  
Length (m) - 138

# Lahad Datu POIC Dry Bulk Terminal

Berth No	Draft (M)	Length (M)	Maxi Vessel Size (DWT)
1	12.8	188	30,000
2	10.8	138	10,000
3	12.8	188	30,000
4	10.8	138	10,000

# Lahad Datu POIC Dry Bulk Terminal

## Storage

- A 200,000 square feet warehouse

## Cargo Handling Equipment

- 2 quay-cranes
- 1 conveyor on gantry
- 1 back-hoe

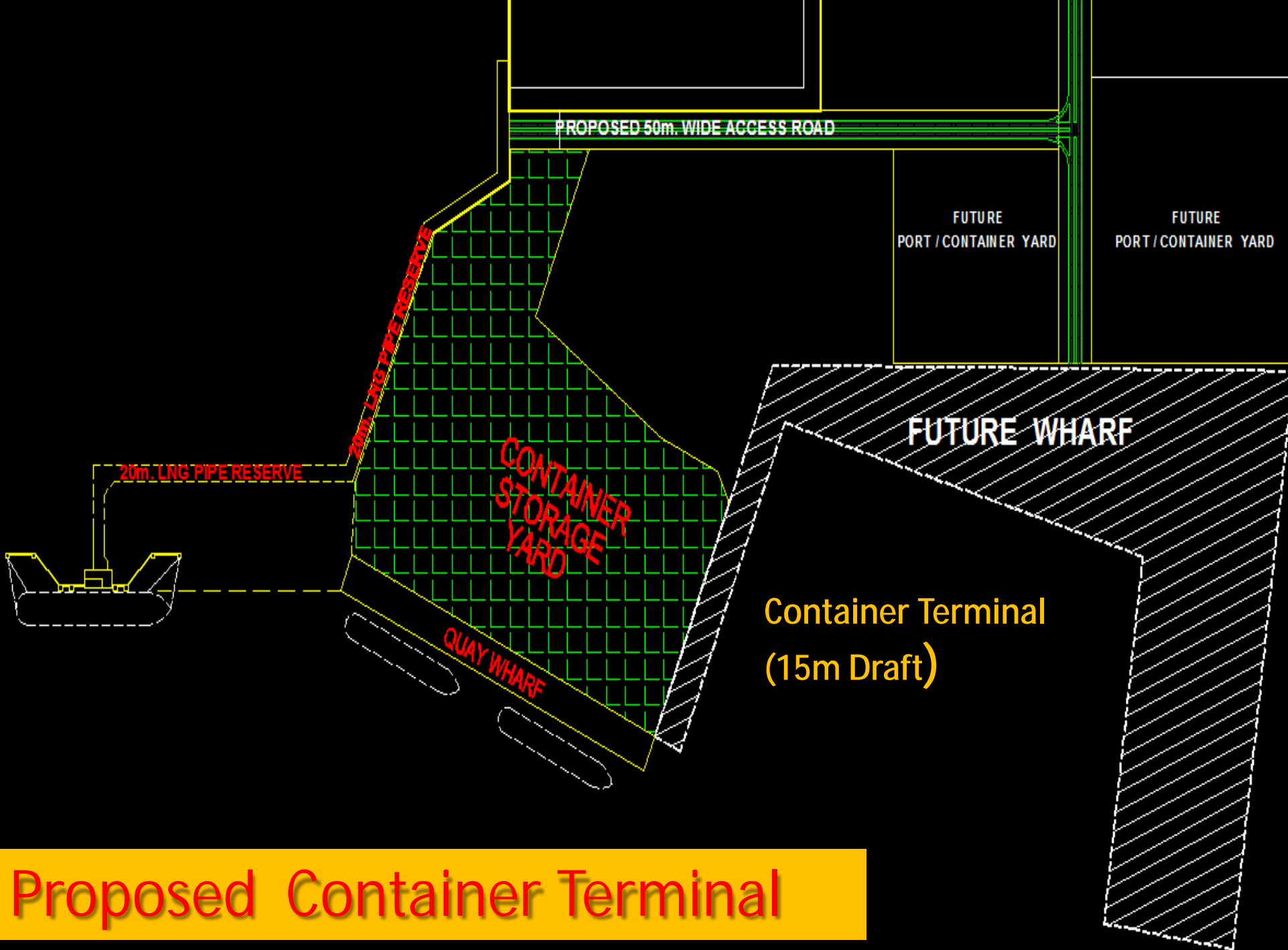


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# Container Terminal



# Proposed Container Terminal



# Lahad Datu Container Terminal Handling Equipment

Item No.	Equipment Type	Number of Unit
1	Ship to Shore Gantry Crane	2
2	Terminal Tractor	10
3	MT Handler	5
4	Rubber tyred Gantry	2
5	Reach-Stacker	2



**Thank You**

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